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<p>(21) International Application Number: PCT/US99/19490</p> <p>(22) International Filing Date: 26 August 1999 (26.08.99)</p> <p>(30) Priority Data: 60/098,019 26 August 1998 (26.08.98) US</p> <p>(71) Applicant (<i>for all designated States except US</i>): NORTEL NETWORKS CORPORATION [CA/CA]; World Trade Center of Montreal, 8th floor, 380 St. Antoine Street West, Montreal, Quebec H2Y 3Y4 (CA).</p> <p>(72) Inventor; and</p> <p>(75) Inventor/Applicant (<i>for US only</i>): LUCIANI, James, V. [US/US]; P.O. Box 1010, Concord, MA 01742 (US).</p> <p>(74) Agents: SCHAAL, William, W. et al.; Blakely, Sokoloff, Taylor & Zafman, 7th floor, 12400 Wilshire Boulevard, Los Angeles, CA 90025-1026 (US).</p>		<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report</i> <i>With amended claims.</i></p> <p>Date of publication of the amended claims: 2 June 2000 (02.06.00)</p>	
<p>(54) Title: NON-BROADCAST, MULTIPLE ACCESS INVERSE NEXT HOP RESOLUTION PROTOCOL (InNHRP)</p> <p>(57) Abstract</p> <p>The present invention is a method and apparatus for obtaining information transmitted between a source station and a destination station in a non broadcast multiple access network. A connection between the source station and a server for the destination station is established. The server has a cache containing the information. The source station transmits a request packet having parameters relating to the information to the server. The source station receives a reply packet containing the information from the server. The reply packet matches the parameters of the request packet.</p>			
<pre> graph TD START([START]) -- 310 --> Q1{DOES A CONNECTION EXIST BETWEEN SOURCE AND DESTINATION STATION ?} Q1 -- YES --> Q2{IS INFORMATION IN SOURCE CACHE ?} Q2 -- YES --> FORWARD[FORWARD DATA PACKET USING CACHE INFORMATION] FORWARD -- 355 --> END([END]) Q2 -- NO --> CONSTRUCT[CONSTRUCT A RESOLUTION REQUEST PACKET HAVING PARAMETERS RELATING TO INFORMATION] CONSTRUCT -- 330 --> TRANSMIT[TRANSMIT THE RESOLUTION REQUEST PACKET TO SERVER] TRANSMIT -- 340 --> RECEIVE[RECEIVE A REPLY PACKET FROM SERVER. THE REPLY PACKET MATCHES THE PARAMETERS IN THE REQUEST PACKET] RECEIVE -- 345 --> STORE[STORE THE INFORMATION IN THE SOURCE CACHE AND THE SERVER CACHE] STORE -- 355 --> FORWARD </pre>			